

# Energy Efficiency/Renewable Energy (EE/RE) Measures for Early Action Compacts

Clean Air Through Energy Efficiency Workshop San Antonio, Texas March 30,2004

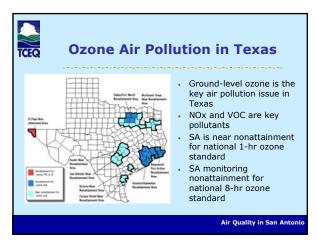
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Air Quality Planning Section

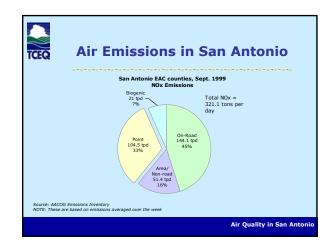


## **Presentation Overview**

- · Air Quality in San Antonio
- Early Action Compact Initiative
- EE/RE and Air Quality
- TCEQ Guide for Crediting EE/RE

Presentation Overview







## San Antonio's EAC Initiative

- Areas in nonattainment of national air quality standards required to submit State Implementation Plan (SIP)
- · SA monitoring nonattainment of national 8-hr ozone std
- SA took Early Action Compact initiative
  - Early planning, implementation and emission reductions leading to expeditious attainment and maintenance of the national 8-hr ozone standard
  - Local control of the measures to be employed
  - State support to ensure technical integrity of the early action plan
  - Formal incorporation of the early action plan into the SIP

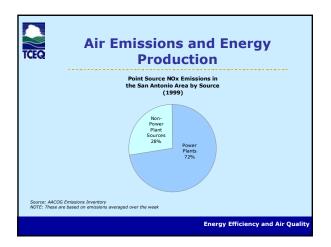
TCEQ

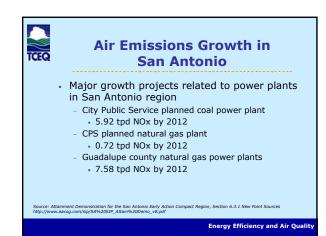
## **EAC Deadlines**

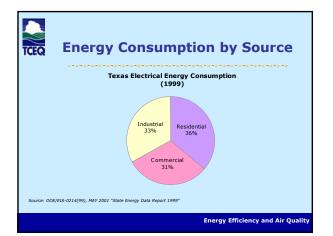
- Signed Compact in December 31, 2002
- EAC Plan due March 31, 2004
  - State of the science emissions inventory and modeling
  - Locally selected enforceable control measures
  - Maintenance for growth provisions
  - Public involvement and education
- State puts into SIP by December 31, 2004
- EAC can include energy efficiency as a measure!

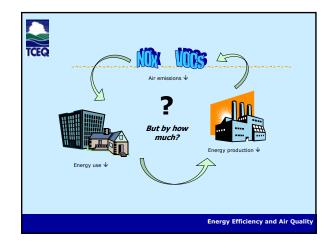
**Early Action Compact Initiative** 

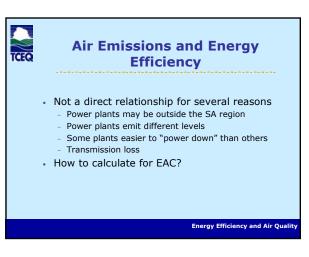
**Early Action Compact Initiative** 













# **History of Efforts to Calculate**

- Dec 2002 HGA SIP included protocol for calculating NOx reductions from implementing SB 5 and SB 7 projects
- TCEQ contracted with Energy Systems Laboratory (ESL) to develop a calculator to estimate emission reductions
  - To be completed by August 2004
- TCEQ developed an interim process which is outlined in Incorporating Energy Efficiency/ Renewable Energy (EE/RE) Projects into the SIP - A Guide for Local Entities

TCEQ Guide for Crediting EE/RE



# **Purpose of Guide**

- To inform local areas working on EACs and SIPs that they <u>can</u> get credit for energy efficiency measures\*
- To give examples of the types of EE/RE projects and technologies creditable
- To outline the process and players involved in including EE/RE as a measure in the SIP
- To describe the role of the local entity in this process

\*With the exception of the Houston/Galveston area which is under a mass cap and trade program.

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#### **Process**

- Report projects to SECO\*
- 2. Estimate associated energy savings
- 3. Calculate associated emissions reductions
- 4. Demonstrate that EPA criteria are met
- 5. Monitor and report results\*
- \*Key role played by political subdivisions

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# 1. Report projects to SECO

- Collect/report information on eligible EE/RE projects to SECO
- SB 5 reporting requirement is foundation for TCEQ's data collection
- ESL and SECO have expanded SECO's reporting website to allow users to submit more information
- The additional information allows your region to take more credit in the SIP for your efforts

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\*Key role played by political subdivisions

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# 2. Estimate Energy Savings 3. Calculate Emissions Reductions

Assistance is available from ESL



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# 4. Demonstrate that EPA criteria are met

- TCEQ to work with EPA to determine the documentation required
- TCEQ to work with political subdivisions to collect the required additional documentation
- TCEQ to work with ESL and EPA to ensure that calculations are acceptable to EPA

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# 5. Monitor/Report Results

- EPA requires evaluation of effectiveness of project/program
- Collect data on program/project performance (i.e. participation levels, actual energy usage)
- In the future, the web reporting forms will allow you to report post-project results on an annual basis

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## What's in it for me?

- Currently tradable/sellable credits cannot be generated from EE/RE projects
- · Clean air/health
- Attainment of National Ambient Air Quality Standards (NAAQS)
  - Avoid stringent requirements
  - Prevent loss of federal highway funds
  - Prevent businesses from locating elsewhere

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## A Look to the Future

- Including EE/RE projects/programs from more energy users into the SIP
  - Federal entities (significant for San Antonio!)
  - Private corporations
  - Political subdivisions not currently required to report to SECO under SB5
- ESL Calculator scheduled to be completed by summer 2004

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## For More Information

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